



# EXETER PUBLIC WORKS DEPARTMENT

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July 15, 2014

United States Environmental Protection Agency  
Region I – New England  
5 Post Office Square – Suite 100  
Boston, MA 02109-3912  
Attn: Joy Hilton, Water Technical Unit (Mail Code: OES04-3)

Re: **NPDES Permit No. NH0100871**  
**Administrative Order on Consent Docket No. 13-010**  
**Quarterly Progress Report, 2nd Quarter, 2014, Fourth Report**

Dear Ms. Joy Hilton:

This report is being made in accordance with the Administrative Order on Consent, Section IV.C., for the second quarter period of April 1, 2014 to June 30, 2014.

Per Section IV.C.1.a., activities undertaken during this reporting period directed with achieving compliance with this Order include:

- The Town continues to participate in WISE (Water Integration Squamscott (River) Exeter), principal members are Rob Roseen and Renee Bourdeau, both of Geosyntec.
- On April 11th a letter was emailed to the Town Manager, Russ Dean, detailing tasks and report elements that EPA stated were not previously sufficiently covered by the Annual Total Nitrogen Control Plan, submitted on January 2<sup>nd</sup>, 2014. This letter was a reiteration of the issues discussed during the March 27 conference call and included a reporting matrix (copy of letter included with this report). It will be used by the Town as a reporting primer and guide.
- On May 7<sup>th</sup> there was a conference call was conducted with the CAPE (Climate Adaptation Plan Exeter) team for updates.
- Facilitates Planning Workshop #4 (Wright-Pierce and Town staff) was held on June 23<sup>rd</sup>.
- The Town continues to take a full suite of influent characterization sampling from weekly 24 hour composite sampling for new WWTP Facilities Design purposes.
- Wright-Pierce Engineering activities completed for the Town's Wastewater Facilities Plan in the past quarter:
- All dates are 2014, unless otherwise noted.
- Attended NHDES subwatershed coordination meeting (June 10)
- Attended the WISE monitoring meeting (June 16)
- Conducted Workshop #4 (June 23).
- Continued coordination with the Town regarding non-point source TN tracking.

- Continued coordination with CAPE team to get data from their project.
- Completed Biowin modeling of alternatives to achieve 3 mg/l and 8 mg/l effluent TN.
- On-going alternatives analysis to determine the most cost-effective approach to achieve 3 mg/l and 8 mg/l effluent TN (MLE, Bardenpho, Sequencing Batch Reactor, earthen basin activated sludge, denitrification filters).
- On-going alternatives analysis to determine the most cost-effective approach to disinfection (chlorination or ultraviolet disinfection).
- On-going alternatives analysis to determine the most cost-effective approach to biosolids management (liquid biosolids, dewatered biosolids).
- Prepared for lagoon decommissioning strategy meeting with the Town and DES.
- Completed WWTF process condition assessment documentation.
- On-going WWTF building design condition assessment.
- On-going coordination with WWTF influent sampling program.
- Coordinated with Town staff.

Per Section IV.C.1.b., Please see attached addendum Wastewater Facilities Planning "Preliminary Analysis of Regional Options" and "Preliminary Sub-Watershed Accounting. Also attached draft Geosyntec Nitrogen Tracking Matrix.

Per Section IV.C.1.c., expected activities to be taken during the next quarter to achieve compliance with the Order include

- Wright-Pierce Engineers conducted a NPDES, AOC, MS4 training session with the Town on April 16<sup>th</sup>.
- Since July 2013, the Department has collected weekly 24-hour composite final effluent samples for total nitrogen. The Town continues to report (on the DMR), monthly average, daily max loadings and daily max concentrations for total nitrogen. The Department continues to collect weekly 24-hour composite final effluent samples for total nitrogen. This commenced with the July 2013 Discharge Monitoring Report (DMR); monthly average, daily max loadings and daily max concentrations for total nitrogen have been reported.
- On July 3<sup>rd</sup> the Town and Wright-Pierce Engineering will attend a lagoon decommissioning strategy meeting at NHDES.

Please call if you have any questions or need any additional information.

Sincerely,

Town of Exeter, New Hampshire



Michael Jeffers  
Water & Sewer Managing Engineer

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Ms. Joy Hilton  
October 15, 2013

cc. Tracy Wood, P.E., NHDES Wastewater Engineering Bureau  
Russell Dean, Town Manager  
Jennifer Perry, DPW Director  
Paul Vlasich, P.E., Town Engineer  
Michael Jeffers, Water & Sewer Managing Engineer  
Scott Butler, Senior Operator